

LETTER REPORT
FOR
CHICAGO INDUSTRIAL WASTE HAULERS
ALSIP, COOK COUNTY, ILLINOIS
U.S. EPA ID: ILD981538689
SSID: FB

TDD: T05-9106-017

PAN: EILO744RAA 8/28/9

AUGUST 28, 1991

Reviewed by: Michelle J. Laster Date: 8/28/91

Approved by: Lawres Advances Date: 8/28/91

Date: 8/28/91



ecology and environment, inc.

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August 28, 1991

Mr. Duane Heaton, Deputy Project Officer U.S. Environmental Protection Agency Emergency Response Section 230 South Dearborn Street 12th Floor Chicago, Illinois 60604

Re: Chicago Industrial Waste Haulers Site Alsip, Illinois TDD# T05-9106-017 PAN# EIL0744RAA

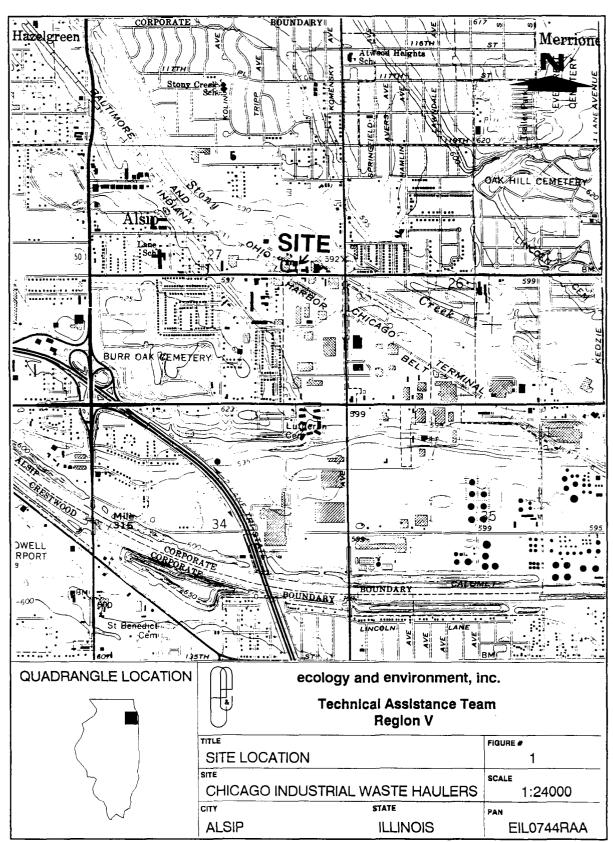
Dear Mr. Heaton:

The Ecology and Environment, Inc. (E & E) Technical Assistance Team (TAT) was tasked by the United States Environmental Protection Agency (U.S. EPA) under TDD# T05-9106-017 to provide technical support and confirmation sampling at the Chicago Industrial Waste Haulers site, Alsip, Cook County, Illinois (see Figure 1 for site location). TAT prepared a sampling plan and collected nine surface soil samples for polychlorinated biphenyl (PCB) analysis. In addition, sampling activities were photographed.

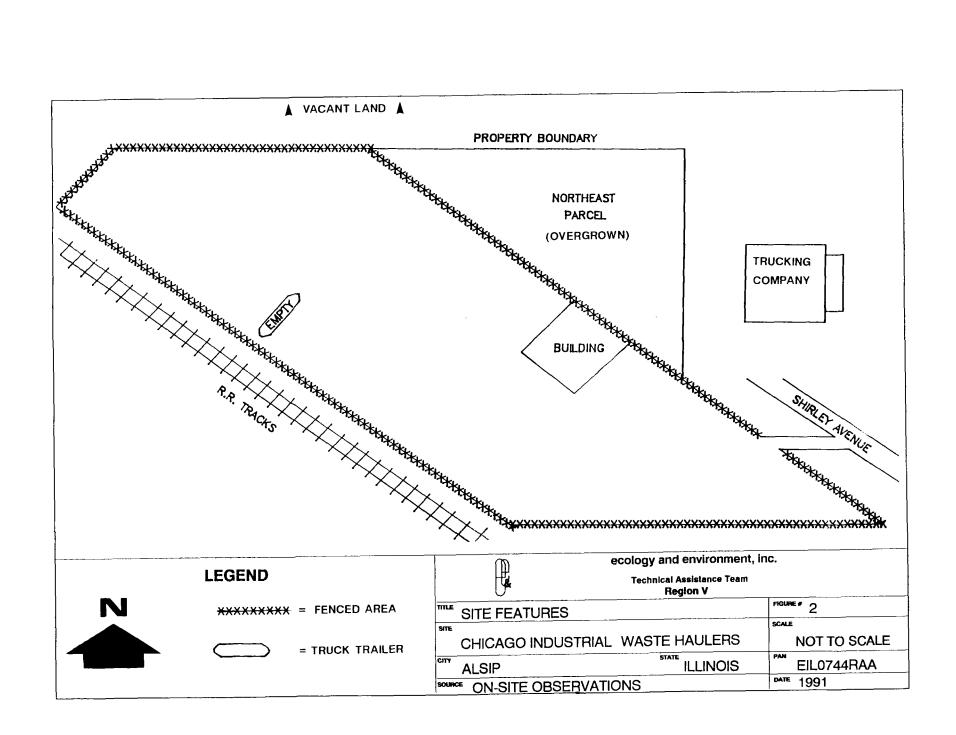
BACKGROUND

The Chicago Industrial Waste Haulers (CIWH) site is an abandoned waste oil storage facility covering approximately 6 acres of fenced land at 4206 Shirley Lane in Alsip, Illinois. The site is located in a mixed industrial and residential area and is completely fenced with the exception of a parcel of overgrown land northeast of the fenced lot (see Figure 2 for site features). A section of railroad tracks and a light metal manufacturing facility border the site on the southwest and the south, respectively. The east side of the site is bordered by Shirley Avenue and a trucking company and the north side by vacant land. A playground and a residential area lie approximately 200 feet north of the site on the other side of a small intermittent stream named Stoney Creek.

Operations began at the site around 1950 when Chicago Tank Cleaners, Inc. (CTC) utilized the property for the storage of waste materials derived during the cleaning of industrial petroleum tanks. CTC changed its name to CIWH in 1986 and began storing a variety of waste materials on-site including slop oil emulsion solids, waste oil-water mixtures, waste oil/solvent mix, ignitable hazardous waste materials, tank bottoms, number six oils, lube oils, and PCB-containing oils. The company discontinued operations at the site later that same year, and the site has remained inactive since. The site is currently under the control of Pollution Control Industries of America (PCIA). (Woodward-Clyde 1990)



SOURCE: USGS TOPOGRAPHIC MAP, BLUE ISLAND, IL QUADRANGLE, 1963, PHOTOREVISED 1973



A Spill Prevention Control and Countermeasure (SPCC) inspection at the CIWH site in early March 1989 first brought the site to the U.S. EPA's attention. A site assessment conducted later that month by the U.S. EPA and TAT documented the presence of 24 above-ground storage tanks with PCB and flammable labels and numerous unlabelled drums on-site. An U.S. EPA removal action completed in June 1989 consisted of the pumping and disposal of all the liquid hazardous wastes in the on-site storage tanks. (Woodward-Clyde 1990)

In April 1989, the U.S. EPA issued an unilateral Administrative Order (AO) to the site PRP requesting that PCIA assume responsibility for the remaining clean-up activities required at the site. In response to the AO, various wastes and waste storage vessels were shipped off-site for disposal during 1989 and 1990. In addition, the AO required that the extent of contamination in on-site soils be assessed in a comprehensive site investigation. PCIA arranged for various subcontractors to establish and layout a sampling grid consisting of 105 sampling points. In July 1990, surface samples were collected at each point on the grid and analyzed for PCBs. A total of 31 samples contained detectable concentrations of PCBs ranging from 1.2 ppm to 32 ppm. TAT was tasked to conduct confirmation sampling in an effort to verify the PCB concentrations in on-site surface soils reported by the PRP. (Woodward-Clyde 1990)

SITE ACTIVITIES

On Monday July 8, 1991, TAT members (TATms) Michelle Jaster and Bill Sass met OSC Len Zintak on-site at 1300 hours as previously arranged. Chuck Smith of PCIA was already present and prepared to collect duplicate samples.

After a brief discussion of the sampling plan proposed by TAT, sampling activities began at 1330 hours. See Figure 3 for sampling locations. TAT collected a total of 9 surface soil samples, including a duplicate, on-site. All sampling activities were conducted in Level C. All samples were collected using a stainless steel hand trowel. Sample material was excavated from a hole 3-6 inches deep and placed in a stainless steel bowl. The material was then mixed before being split with Smith of PCIA. Composite samples were prepared by mixing sample material from five different locations in the stainless steel bowl prior to the splitting of the samples. All sampling equipment was decontaminated in between sampling locations with an Alconox and distilled water solution and a triple rinse with distilled water.

Sampling activities were completed at 1500 hours. Smith (PCIA) left site at this time while TATms packaged samples for shipment to the laboratory. OSC Zintak and TATms left site at 1600 hours. Samples collected were analyzed by PCS Labs in LaOtto, Indiana for the following PCBs: Aroclor 1016, 1221, 1232, 1242, 1248, 1254 and 1260. Analytical results are presented in Table 1 and the laboratory data package can be found in Appendix B.

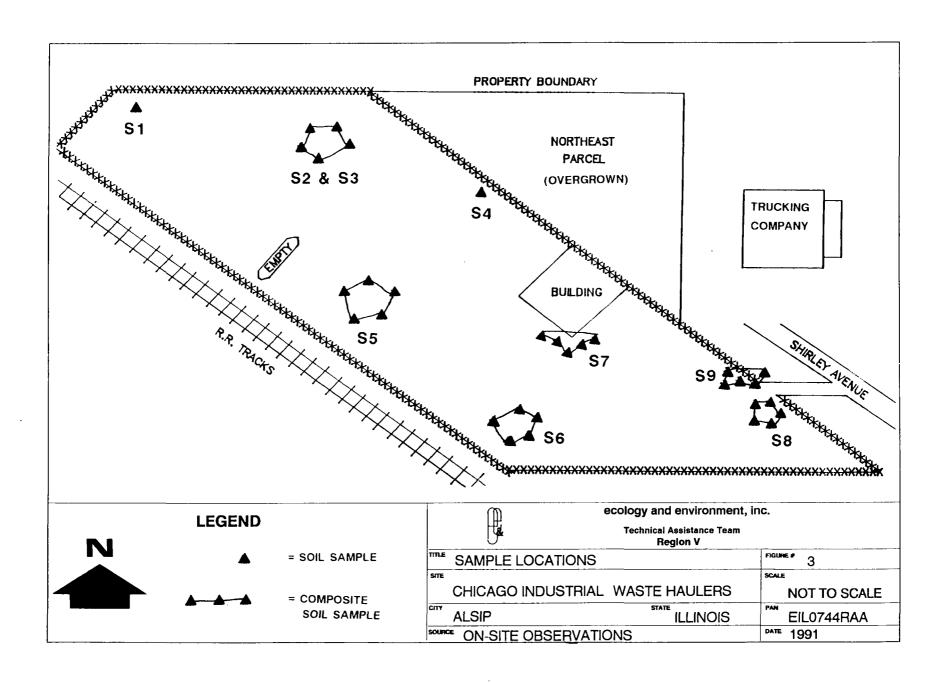


TABLE 1
Polychlorinated Biphenyl Concentrations (mg/kg)
for Surface Soil Samples
Chicago Industrial Waste Haulers -- Alsip, Illinois

Sample ID	TYPE	Aroclor 1260	Aroclor 1248
S1	GRAB	0.79J	1.00
S2	COMP	4.9	4.3
S 3	COMP	3.5	2.6
S4	GRAB	29.0	50.0
S 5	COMP	120.0	1.0U
S6	COMP	2.6	1.0U
S 7	COMP	5.2	1.00
S8	COMP	18.0	1.0U
S9	COMP	16.0	1.00

Note: COMP = composite sample All values reported in mg/kg

- U = The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.
- J = The associated numerical value is an estimated quantity because the reported concentrations were less than the contract required detection limits or quality control criteria were not met.

SAMPLING RESULTS

Elevated levels of PCBs were detected in samples S4 and S5 (Table 1). Aroclor 1248 was detected at 50J ppm at sample location S4 in the northcentral portion of the site. Aroclor 1260 was detected at 120J ppm at sample location S5 in the southcentral portion of the site.

RECOMMENDATIONS

TAT recommends that some or all of the following measures be taken at the CIWH site in an effort to complete clean-up activities:

- •Further sampling may be necessary in other areas on-site in order to ensure all contaminated areas have been located. A smaller scale grid similar to the one previously employed by the PRP's contractor may prove useful.
- •Additional excavation and disposal of PCB-contaminated soil in the areas surrounding TAT-collected soil samples S4 and S5. The area composited for sample S5 should be closely examined due to the elevated level of Aroclor 1260 detected. Individual locations in this area may possibly contain even higher levels of PCBs.
- •Confirmation sampling upon completion of additional soil excavation and disposal. An EPA recommended clean-up level for industrial areas of 25 ppm PCBs in soils is expected to be attained at all areas of the CIWH site.

Should you have any comments or questions, please feel free to contact this office.

Sincerely,

Michelle L. Jaster

cc: Len Zintak, OSC, U.S. EPA Lou Adams, TATL, E & E

Michelle L. faster

Woodward-Clyde Consultants, 1990, <u>Site Investigation and Characterization for the Chicago Industrial Waste Haulers Site</u>, prepared for Pollution Control Industries of America.

APPENDIX A: SITE PHOTOGRAPHS

SITE NAME: Chicago Industrial Waste Haulers

PAGE 1 OF 9

U.S. EPA ID: ILD981538689

TDD: T05-9106-017

PAN: EILO744RAA

DATE: 7/08/91

TIME: 1335

DIRECTION OF PHOTOGRAPH:

North

WEATHER
CONDITIONS:
Sunny and clear

Low 80's

PHOTOGRAPHED BY: Michelle Jaster

SAMPLE ID (if applicable): S1

SITE EILOTHIRAA
CITY ALSIP STATE IL
SAMPLE SI
DATE 7/8/91
TIME 13-35

DESCRIPTION: Close-up view of soil sample S1 location.

DATE: 7/08/91

TIME: 1335

DIRECTION OF PHOTOGRAPH: North

WEATHER
CONDITIONS:
Sunny and clear

Low 80's

PHOTOGRAPHED BY: Michelle Jaster

SAMPLE ID (if applicable):



DESCRIPTION: Perspective view of soil sample S1 location.

SITE NAME: Chicago Industrial Waste Haulers

PAGE 2 OF 9

U.S. EPA ID: ILD981538689

TDD: T05-9106-017

PAN: EILO744RAA

DATE: 7/08/91

TIME: 1345

DIRECTION OF PHOTOGRAPH: Southeast

WEATHER CONDITIONS: Sunny and clear

Low 80's

PHOTOGRAPHED BY: Michelle Jaster

SAMPLE ID (if applicable): S2 & S3 (dup)



DESCRIPTION: Close-up view of soil samples S2 and S3 (duplicate) location.

DATE: 7/08/91

TIME: 1345

DIRECTION OF PHOTOGRAPH: Southeast

WEATHER
CONDITIONS:
Sunny and clear

Low 80's

PHOTOGRAPHED BY: Michelle Jaster

SAMPLE ID (if applicable): S2 & S3 (dup)



DESCRIPTION: Perspective view of soil samples S2 and S3 (duplicate) location.

SITE NAME: Chicago Industrial Waste Haulers

PAGE 3 OF 9

U.S. EPA ID: ILD981538689

TDD: T05-9106-017

PAN: EILO744RAA

DATE: 7/08/91

TIME: 1400

DIRECTION OF PHOTOGRAPH: Southeast

WEATHER
CONDITIONS:
Sunny and clear

Low 80's

PHOTOGRAPHED BY: Michelle Jaster

SAMPLE ID (if applicable): S4



DESCRIPTION: Close-up view of soil sample S4 location.

DATE: 7/08/91

TIME: 1400

DIRECTION OF PHOTOGRAPH: Southeast

WEATHER
CONDITIONS:
Sunny and clear

Low 80's

PHOTOGRAPHED BY: Michelle Jaster

SAMPLE ID (if applicable): S4



DESCRIPTION: Perspective view of soil sample S4 location.

SITE NAME: Chicago Industrial Waste Haulers

PAGE 4 OF 9

U.S. EPA ID: ILD981538689

TDD: T05-9106-017

PAN: EILO744RAA

DATE: 7/08/91

TIME: 1410

DIRECTION OF PHOTOGRAPH: Northwest

WEATHER
CONDITIONS:
Sunny and clear

Low 80's

PHOTOGRAPHED BY: Michelle Jaster

SAMPLE ID (if applicable): S5

DESCRIPTION: Close-up view of soil sample S5 location.

DATE: 7/08/91

TIME: 1410

DIRECTION OF PHOTOGRAPH: Northwest

WEATHER
CONDITIONS:
Sunny and clear

Low 80's

PHOTOGRAPHED BY: Michelle Jaster

SAMPLE ID (if applicable): S5



DESCRIPTION: Perspective view of soil sample S5 location.

SITE NAME: Chicago Industrial Waste Haulers

PAGE 5 OF 9

U.S. EPA ID: ILD981538689

TDD: T05-9106-017

PAN: EILO744RAA

DATE: 7/08/91

TIME: 1420

DIRECTION OF PHOTOGRAPH: Southeast

WEATHER
CONDITIONS:
Sunny and clear

Low 80's

PHOTOGRAPHED BY: Michelle Jaster

SAMPLE ID (if applicable): S6

DESCRIPTION: Close-up view of soil sample S6 location.

DATE: 7/08/91

TIME: 1420

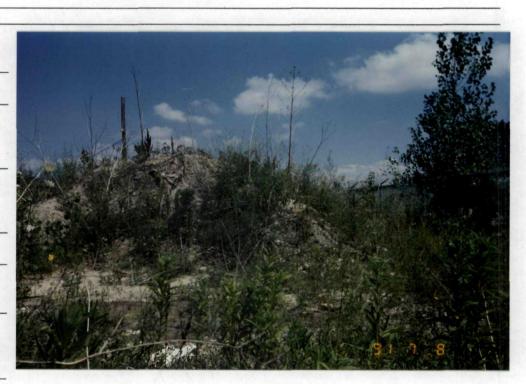
DIRECTION OF PHOTOGRAPH: Southeast

WEATHER
CONDITIONS:
Sunny and clear

Low 80's

PHOTOGRAPHED BY: Michelle Jaster

SAMPLE ID (if applicable): S6



DESCRIPTION: Perspective view of soil sample S6 location.

SITE NAME: Chicago Industrial Waste Haulers

PAGE 6 OF 9

U.S. EPA ID: ILD981538689

TDD: T05-9106-017

PAN: EILO744RAA

DATE: 7/08/91

TIME: 1430

DIRECTION OF PHOTOGRAPH: Northeast

WEATHER
CONDITIONS:
Sunny and clear

Low 80's

PHOTOGRAPHED BY: Michelle Jaster

SAMPLE ID (if applicable): S7

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DESCRIPTION: Close-up view of soil sample S7 location.

DATE: 7/08/91

TIME: 1430

DIRECTION OF PHOTOGRAPH: Northeast

WEATHER
CONDITIONS:
Sunny and clear

Low 80's

PHOTOGRAPHED BY: Michelle Jaster

SAMPLE ID (if applicable): S7



DESCRIPTION: Perspective view of soil sample S7 location.

SITE NAME: Chicago Industrial Waste Haulers

PAGE 7 OF 9

U.S. EPA ID: ILD981538689

TDD: T05-9106-017

PAN: EILO744RAA

DATE: 7/08/91

TIME: 1440

DIRECTION OF PHOTOGRAPH: Northeast

WEATHER
CONDITIONS:
Sunny and clear

Low 80's

PHOTOGRAPHED BY: Michelle Jaster

SAMPLE ID (if applicable): S8

SITE E OTHERA AND STATE IT, SAMPLE SY OATE 1/4/41
TIME PHIO

DESCRIPTION: Close-up view of soil sample S8 location.

DATE: 7/08/91

TIME: 1440

DIRECTION OF PHOTOGRAPH: Northeast

WEATHER
CONDITIONS:
Sunny and clear

Low 80's

PHOTOGRAPHED BY: Michelle Jaster

SAMPLE ID (if applicable): S8



DESCRIPTION: Perspective view of soil sample S8 location.

SITE NAME: Chicago Industrial Waste Haulers

PAGE 8 OF 9

U.S. EPA ID: ILD981538689

TDD: T05-9106-017

PAN: EILO744RAA

DATE: 7/08/91

TIME: 1445

DIRECTION OF PHOTOGRAPH: Northeast

WEATHER
CONDITIONS:
Sunny and clear

Low 80's

PHOTOGRAPHED BY: Michelle Jaster

SAMPLE ID (if applicable): S9



DESCRIPTION: Close-up view of soil sample S9 location.

DATE: 7/08/91

TIME: 1445

DIRECTION OF PHOTOGRAPH: Northeast

WEATHER CONDITIONS: Sunny and clear

Low 80's

PHOTOGRAPHED BY: Michelle Jaster

SAMPLE ID (if applicable): S9



DESCRIPTION: Perspective view of soil sample S9 location.

SITE NAME: Chicago Industrial Waste Haulers

OF PAGE 9

U.S. EPA ID: ILD981538689

TDD: T05-9106-017

PAN: EILO744RAA



TIME: 1450 DATE: 7/8/91

DIRECTION OF PHOTOGRAPH: NE

PHOTOGRAPHED BY: Michelle Jaster

WEATHER CONDITIONS: Sunny and clear, Low 80's

SAMPLE ID (if applicable): NA

DESCRIPTION: Perspective of northeastern section of site. Note location of on-site building and empty tank trailer

in the background.

APPENDIX B: LABORATORY DATA PACKAGE



ecology and environment, inc.

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415 International Specialists in the Environment

MEMORANDUM

DATE: August 13, 1991

TO: Michelle Jaster, Project Manager, E & E, Chicago, IL

FROM: Brenda Jones, TAT-Chemist, E & E, Chicago, IL

SUBJ: Pesticide/PCB Data Quality Assurance Review, Chicago

Industrial Waste Haulers Site

REF: Analytical TDD: T05-9106-806 Project TDD: T05-9106-017

Analytical PAN: EILO744AAA Project PAN: EILO744RAA

The data quality assurance review of nine soil samples collected from the Chicago Industrial Waste Haulers site in Alsip, Illinois has been completed. Analysis for PCBs (U.S. EPA method 8080) was performed by PCS Labs, LaOtto, Indiana.

The nine samples were numbered: S1 through S9

Data Qualifications:

I Holding Time: Acceptable
The samples were received on 7/9/91 after sampling on 7/8/91. They
were analyzed on 7/10/91 which is within the allowable holding time
of 14 days to extraction and 40 days from extraction to analysis.

- II Instrument Performance: Acceptable
 Based on a review of the chromatograms, there is adequate peak
 separation to accurately identify individual aroclors.
- III Initial and Continuing Calibration Verification
 A. Initial Calibration:
 The lab performed an initial calibration using three standards.
 According to the CLP Statement of Work, the evaluation of the percent RSD is not applicable to multipeak compounds such as PCBs.
 - B. Continuing Calibration: Acceptable
 The percent difference of the continuing calibration response
 factors from the initial average response factors are all less
 than the allowable limit of 10%.

- IV Matrix Spike/Matrix Spike Duplicates:
 The percent recoveries of the spikes are less than the acceptable 80% limit. Although they are considered estimated, these values are biased low, and at worst, underestimate the true values. Therefore, in the opinion of the reviewer, no action is necessary. The relative percent difference of the matrix spike and matrix spike duplicate is 9.0%, which is acceptable.
- V Blanks: Acceptable No compounds were detected in the blanks at levels above the detection limits.
- VI Compound Identification: Data not available
- VII Compound Quantitation and Reported Detection Limits: Data not available
- VIII Performance Evaluation Samples: Not applicable
- IX Surrogates:
 Three of the surrogates are outside the acceptable limits. Since the guidance is not specific concerning surrogates, no action is taken by the reviewer.
- X Overall Assessment of Data for Use

The overall usefulness of the data is based on the criteria outlined in "Quality Assurance/Quality Control Guidance for Removal Activities" (April 1990) and Contract Laboratory Program Statement of Work for Organic Analysis OLMO1-0. Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

Data Qualifiers and Definitions

- J The associated numerical value is an estimated quantity because the reported concentrations were less than the contract required detection limits or quality control criteria were not met.
- U The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.

ECOLOGY AND ENVIRONMENTAL CASE NARRATIVE

All samples were received and logged into the laboratory without incident. The samples were analyzed for polychlorinated biphenyls. Enclosed are the initial and continuing calibration data sheets.

The samples were analyzed first on a DB-608 column. PCB's were detected and confirmed by GC/MS. Samples S2, S3 and S4 contained mixtures of aroclors 1248 and 1260. These mixtures made quantitation difficult. Every effort was made to isolate peaks that were not common in either aroclors. Quantitation was based on the 5-6 most significant peaks rather than the total area allowing a more accurate quantitation of the two separate aroclors.

Samples S4, S5, S8 and S9 were diluted into range of the original calibration curve for more accurate results. All samples were spiked with the surrogate dibutylchlorendate. The samples S4, S5 and S8 had an interfering peak eluting at the same retention time as the surrogate. This resulted in high surrogate recovery values for these samples. These high recoveries are attributed to the matrix of the samples.

Sincerely,

POLLUTION CONTROL SYSTEMS INCORPORATED

Pamela L. Kellv

Organic Chemistry Supervisor

PLK/jaf
jaf\jun91\narrativ.e&e

EPA SAMPLE NO.

SVBLK01

LAB NAME: POLLUTION CONTROL SYSTEMS INCORPORATED

MATRIX: (SOIL/WATER) SOIL LAB SAMPLE ID: LAB BLANK

SAMPLE WT/VOL: 2.85 (g/ml) GM LAB FILE ID: 0709PCB061F0305.D

LEVEL: (LOW/MED) MED DATE RECEIVED: 7/9/91

DATE EXTRACTED: 7/9/91 DATE ANALYZED: 7/11/91

EXTRACTION: (SEPF/CONT/SONC) SONC DILUTION FACTOR: 1

GPC CLEANUP (Y/N): N

CONCENTRATION UNITS: COMPOUND CAS NO. (UG/L or UG/KG) Q 12674-11-2 ------Aroclor-1016 1000 U 11104-28-2 -----Aroclor-1221 1000 ับ 11141-16-5 -----Aroclor-1232 1000 U 53469-21-9 -----Aroclor 1242 1000 U 12672-29-6 -----Aroclor 1248 U 1000 11097-69-1 ------Aroclor-1254 Ū 1000 11096-82-5 -----Aroclor-1260 1000

FORM I PEST

EPA SAMPLE NO. ECOLOGY & ENV. S1, SOIL 1

LAB NAME: POLLUTION CONTROL SYSTEMS INCORPORATED

MATRIX: (SOIL/WATER) SOIL LAB SAMPLE ID: 7480

SAMPLE WT/VOL: 2.76 (g/ml) GM

LAB FILE ID: 0709PCB027F0201.D

LEVEL: (LOW/MED) MED

DATE RECEIVED: 7/9/91

DATE EXTRACTED: 7/9/91 DATE ANALYZED: 7/10/91

EXTRACTION: (SEPF/CONT/SONC) SONC DILUTION FACTOR: 1

GPC CLEANUP (Y/N): N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/l or ug/kg) UG	KG Q
12674-11-2 -		1000	U
11104-28-2 -	Aroclor-1221	1000	U
111141-16-5 -	Aroclor-1232	1000	UU
53469-21-9 -	Aroclor 1242	1000	U
12672-29-6 -	Aroclor 1248	1000	U
11097-69-1 -	Aroclor-1254	1000	U
11096-82-5 -	Aroclor-1260	790	J
\			/

FORM I PEST

EPA SAMPLE NO.

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ECOLOGY & ENV. |
SOIL 1. S1 MS

LAB NAME: POLLUTION CONTROL SYSTEMS INCORPORATED

MATRIX: (SOIL/WATER) SOIL LAB SAMPLE ID: 7480 MS

SAMPLE WT/VOL: 2.89 (g/ml) GM LAB FILE ID: 0709PCB058F0201.D

LEVEL: (LOW/MED) MED DATE RECEIVED: 7/9/91

DATE EXTRACTED: 7/9/91 DATE ANALYZED: 7/10/91

EXTRACTION: (SEPF/CONT/SONC) SONC DILUTION FACTOR: 1

GPC CLEANUP (Y/N): N

CAS NO.	COMPOUND	(UG/L or UG/KG) UG/KG	Q
12674-11-2	Aroclor-1016	1000	 ט
11104-28-2	Aroclor-1221	1000	U
11141-16-5	Aroclor-1232	1000	J
53469-21-9	Aroclor 1242	1000	U
12672-29-6	Aroclor 1248	1000	
11097-69-1	Aroclor-1254	1000	
11096-82-5	Aroclor-1260	1300	
\		,	

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FORM I PEST

EPA SAMPLE NO.

ECOLOGY & ENV.

SOIL 1, S1 MSD

LAB NAME: POLLUTION CONTROL SYSTEMS INCORPORATED

MATRIX: (SOIL/WATER) SOIL LAB SAMPLE ID: 7480 MSD

SAMPLE WT/VOL: 3.01 (g/ml) GM LAB FILE ID: 0709PCB059F0201.D

LEVEL: (LOW/MED) MED DATE RECEIVED: 7/9/91

DATE EXTRACTED: 7/9/91 DATE ANALYZED: 7/10/91

EXTRACTION: (SEPF/CONT/SONC) SONC DILUTION FACTOR: 1

GPC CLEANUP (Y/N): N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(UG/L or UG/KG)	UG/KG	Q,
1	Aroclor-1016	1000		UU
11141-16-5	Aroclor-1232	1000		<u> </u>
53469-21-9 12672-29-6	Aroclor 1242	1000 1000	<u></u>	UU
11097-69-1	Aroclor-1254	900 1400_		
\				

A 3 (3/1)

FORM I PEST

EPA SAMPLE NO. Ecology & Env. S2, Soil 2

LAB NAME: POLLUTION CONTROL SYSTEMS INCORPORATED

MATRIX: (SOIL/WATER) SOIL

LAB SAMPLE ID: 7481

SAMPLE WT/VOL: 2.72 (g/ml) GM

LAB FILE ID: 0709PCB046F0201.D

LEVEL: (LOW/MED) MED

DATE RECEIVED:

7/9/91

DATE EXTRACTED: 7/9/91

DATE ANALYZED: 7/10/91

EXTRACTION: (SEPF/CONT/SONC) SONC DILUTION FACTOR: 1

GPC CLEANUP (Y/N): N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(UG/L OR UG/KG) UG/KG	Q\
12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1	Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor 1242 Aroclor 1248	1000 1000 1000 1000 4300 1000	
11096-82-5	Aroclor-1260	4900	

FORM I PEST

EPA SAMPLE NO. ECOLOGY & ENV. S3, SOIL 3

LAB NAME: POLLUTION CONTROL SYSTEMS INCORPORATED

MATRIX: (SOIL/WATER) SOIL

LAB SAMPLE ID:

7482

SAMPLE WT/VOL: 3.16 (g/ml) GM

LAB FILE ID: 0709PCB047F0201.D

LEVEL: (LOW/MED) MED

DATE RECEIVED:

7/9/91

DATE EXTRACTED: 7/9/91

DATE ANALYZED: 7/10/91

EXTRACTION: (SEPF/CONT/SONC) SONC DILUTION FACTOR: 1

GPC CLEANUP (Y/N): N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/l or ug/kg)	UG/KG	Q
12674-11-2	Aroclor-1016	1000		U
11104-28-2	Aroclor-1221	1000		
11141-16-5	Aroclor-1232	1000		
53469-21-9	Aroclor 1242	1000		
12672-29-6	Aroclor 1248	2600		
11097-69-1	Aroclor-1254	1000		Ū
11096-82-5	Aroclor-1260	3500		

FORM I PEST

EPA SAMPLE NO. ECOLOGY & ENV. S4, SOIL 4

LAB NAME: POLLUTION CONTROL SYSTEMS INCORPORATED

MATRIX: (SOIL/WATER)

SOIL

LAB SAMPLE ID:

7483

SAMPLE WT/VOL: 2.85 (g/ml)

GM

LAB FILE ID: 0709PCB048F0201.D

LEVEL: (LOW/MED)

MED

DATE RECEIVED:

7/9/91

DATE EXTRACTED:

7/9/91

DATE ANALYZED:

7/10/91

EXTRACTION: (SEPF/CONT/SONC) SONC

DILUTION FACTOR:

10

GPC CLEANUP (Y/N): N

CONCENTRATION UNITS:

CAS NO. COMPOUND (UG/L or UG/KG) UG/KG Q

/				
12674-11-2Are	oclor-1016	1000	i	U
11104-28-2Arc	oclor-1221	1000		
11141-16-5Ar	oclor-1232	1000		
53469-21-9Ar	oclor 1242	1000		U
12672-29-6Ar	oclor 1248	50,000		
11097-69-1Ar	oclor-1254	1000		U
11096-82-5Ar	oclor-1260	29,000		
\				

FORM I PEST

LAB NAME: POLLUTION CONTROL SYSTEMS INCORPORATED

MATRIX: (SOIL/WATER)

SOIL

LAB SAMPLE ID:

7484

SAMPLE WT/VOL: 3.03 (g/ml) GM

LAB FILE ID: 0709PCB062F0304.D

LEVEL: (LOW/MED)

MED

DATE RECEIVED: 7/9/91

DATE EXTRACTED: 7/9/91

DATE ANALYZED: 7/11/91

EXTRACTION: (SEPF/CONT/SONC) SONC DILUTION FACTOR: 20

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(UG/L or UG/KG)	UG/KG	Q	_\
12674-11-2	Aroclor-1016	1000		ט	-
11104-28-2	Aroclor-1221	1000		ַ ט	_]
11141-16-5	Aroclor-1232	1000		ַ ט	_[
53469-21-9	Aroclor 1242	1000		ַ עַ	[]
12672-29-6	Aroclor 1248	1000		ַ ַ ַ ַ ַ ַ ַ	_ l
11097-69-1	Aroclor-1254	1000		ַ ט	_
11096-82-5	Aroclor-1260	_120,000			_[_

1/87 Rev.

FORM I PEST

EPA SAMPLE NO. ECOLOGY & ENV. S6, SOIL 6

LAB NAME: POLLUTION CONTROL SYSTEMS INCORPORATED

MATRIX: (SOIL/WATER) SOIL

LAB SAMPLE ID: 7485

SAMPLE WT/VOL: 2.87 (g/ml) GM

LAB FILE ID: 0709PCB035F0201.D

LEVEL: (LOW/MED)

MED

DATE RECEIVED:

7/9/91

DATE EXTRACTED: 7/9/91

DATE ANALYZED:

7/10/91

EXTRACTION: (SEPF/CONT/SONC) SONC DILUTION FACTOR:

GPC CLEANUP (Y/N): N

CONCENTRATION UNITS: (ug/l or ug/kg) UG/KG

CAS NO.	COMPOUND	(ug/l or ug/kg)	UG/KG	Q
11104-28-2	Aroclor-1016	1000 1000		
11141-16-5 53469-21-9	Aroclor-1232 Aroclor 1242	1000 1000		u
12672-29-6	Aroclor 1248	1000		
11096-82-5	Aroclor-1260	2600		

FORM I PEST

EPA SAMPLE NO. ECOLOGY & ENV. S7, SOIL 7

LAB NAME: POLLUTION CONTROL SYSTEMS INCORPORATED

MATRIX: (SOIL/WATER) SOIL

LAB SAMPLE ID: 7486

SAMPLE WT/VOL: 2.56 (g/ml) GM LAB FILE ID: 0709PCB036F0201.D

LEVEL: (LOW/MED) MED

DATE RECEIVED: 7/9/91

DATE EXTRACTED: 7/9/91

DATE ANALYZED: 7/10/91

EXTRACTION: (SEPF/CONT/SONC) SONC DILUTION FACTOR: 10

GPC CLEANUP (Y/N): N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/l or ug/kg)	UG/KG	Q	٠,
12674-11-2	Aroclor-1016	1000		ן ט	1
11104-28-2	Aroclor-1221	1000		U	-
11141-16-5	Aroclor-1232	1000		U	-
53469-21-9	Aroclor 1242	1000		ט	1
12672-29-6	Aroclor 1248	1000			-
11097-69-1	Aroclor-1254	1000			
11096-82-5	Aroclor-1260	5200			- 1

FORM I PEST

EPA SAMPLE NO. ECOLOGY & ENV. S8, SOIL 8

LAB NAME: POLLUTION CONTROL SYSTEMS INCORPORATED

MATRIX: (SOIL/WATER) SOIL

LAB SAMPLE ID:

SAMPLE WT/VOL: 2.82 (g/ml) GM

LAB FILE ID: 0709PCB050F0201.D

LEVEL: (LOW/MED) MED

DATE RECEIVED:

7/9/91

DATE EXTRACTED: 7/9/91

DATE ANALYZED: 7/10/91

11097-69-1 ------Aroclor-1254_ 11096-82-5 -----Aroclor-1260_

EXTRACTION: (SEPF/CONT/SONC) SONC DILUTION FACTOR:

10

GPC CLEANUP (Y/N): N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/l or ug/kg)	UG/KG	Q
12674-11-2	Aroclor-1016	1000		บ_
11104-28-2	Aroclor-1221	1000		U
11141-16-5	Aroclor-1232	1000		UU
53469-21-9	Aroclor 1242	1000		U
12672-29-6	Aroclor 1248	1000	· · · · · · · · · · · · · · · · · · ·	

1/87 Rev.

FORM I PEST

EPA SAMPLE NO. ECOLOGY & ENV. S9, SOIL 9

LAB NAME: POLLUTION CONTROL SYSTEMS INCORPORATED

MATRIX: (SOIL/WATER) SOIL

LAB SAMPLE ID: 7488

SAMPLE WT/VOL: 2.21 (g/ml) GM LAB FILE ID: 0709PCB053F0201.D

LEVEL: (LOW/MED) MED

DATE RECEIVED: 7/9/91

DATE EXTRACTED: 7/9/91

DATE ANALYZED: 7/10/91

EXTRACTION: (SEPF/CONT/SONC) SONC DILUTION FACTOR:

10

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/l or ug/kg)	UG/KG	Q
12674-11-2	Aroclor-1016	1000	_	ָ ט
11104-28-2	Aroclor-1221	1000		ן
11141-16-5	Aroclor-1232	1000		UU
53469-21-9	Aroclor 1242	1000		U
12672-29-6	Aroclor 1248	1000		
11097-69-1	Aroclor-1254	1000		u
11096-82-5	Aroclor-1260	16,000		<u> </u>

FORM I PEST

1/87 Rev.

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